

QUIZ 1

Name _____

1. For the vectors $\vec{w} = \langle 1, 0, -2 \rangle$ and $\vec{v} = \langle 1, -2, 3 \rangle$ find:

(a) $5\vec{v} + 3\vec{w}$.

(b) $\|\vec{v}\|$

(c) the angle between \vec{v} and \vec{w} .

2. The thrust of an airplane's engines produces a speed of 500mph in still air. The wind velocity is given by $\langle 20, 30 \rangle$. In what direction should the airplane fly in order to head due east?